Smart Dupline® Universal Mobile Modem Type SH2UMMF124





- Universal modem extension for Sx2WEB24
- Connection to Sx2WEB24 via internal bus
- Compatibility with quad-band GSM-GPRS-EDGE standards
- Compatibility with dual-band UMTS-GPRS-HSPA standards
- SIM (25 x 15mm) for data communication (M2M SIM type only)
- Available versions: one for Europe
- Dimensions: 2-DIN module
- Protection degree (front): IP40

Product Description

The SH2UMMF124 is a universal mobile modem which, connected to a Sx2WEB24, enables the control and monitoring of the smart house functions/ events, sending and receiving SMS messages to/from mobile phones. The SMS functions are programmed by the SH tool.

Using SMS messaging the user can:

- activate/deactivate functions
- read function status
- write analogue values (setpoints, timers)

- read	analog	gue	values	(set-
points,	tim	ers,	ana	logue
inputs	such	as	tempe	rature
sensors, lux sensors)				

- receive events (alarms, function status changes, analogue signal crossing setpoints,...).
- receive feedback on the sent commands.

Furthermore the SH2UMMF124 is based on UMM communication technology for data communication when wired internet is not available.

Ordering Key	SH	2	UMM	F12	24
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smart-house 2-DIN housing	
Universal modem ———	
Area —	
Power supply	

Type Selection

Housing	Mounting	Compatibility Area	Supply: 15 to 30 VDC
2 DIN	DIN-rail	Europe	SH2UMMF124

Supply Specifications

Power supply	Overvoltage cat. II	Rated operational power	5 W
Poted energtional voltage	(IEC 60664-1, par. 4.3.3.2) 15 to 24 VDC ± 20%	Protection for reverse polarity	Yes
Rated operational voltage		Connection	A1 (+) and A2 (-)
Operational voltage range	15 to 30 VDC (ripple included)	Power on delay	Typ. 4 s
Rated impulse voltage	500V (1,2/50μs) (IEC 60664-1, tab. F.1)	Power off delay	1 s



Main hardware characteristics

Radio modem		Communication Purpose	Access to the Sx2WFB24
Communication technology	GSM, GPRS, EDGE standards	Communication : u. poss	if wired network is not available to send SMS
Quad band: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz. UMTS and HSPA standards Dual band: Europe (EUD): 900 MHz, 2100 MHz; Output power Class 4 (2 W, 33 dBm) @ GSM 850/900 MHz Class 1 (1 W, 30 dBm) @ GSM 1800/1900 MHz Class E2 (0.5 W, 27 dBm) @ EDGE 850/900 MHz Class E2 (0.4 W, 26 dBm) @ EDGE 1800/1900 MHz Class 3 (0.25 W, 24 dBm) @ UMTS	900 MHz, 1800 MHz, 1900 MHz. UMTS and HSPA stan- dards	UMTS-HSPA connectivity Downlink speed Uplink speed W-CDMA (Wideband Code Division Multiple Access)	HSDPA 7.2Mb/s (category 8 HSUPA 5.76Mb/s (category 6) Downlink/Uplink up to 384 kb/s
	GPRS-EDGE connectivity Multi-slot Mobile-station Downlink speed Uplink speed CSD (Circuit Switch Data)	12 class B class GPRS: up to 107 kb/s EDGE: up to 296 kb/s GPRS: up to 85.6 kb/s EDGE: up to 236.8 kb/s Downlink/Uplink: up to 14.4 kb/s	
	Auxiliary port Type and connections	Compatible with Sx2WEB24 unit only	
Modem Configuration	By means of the SH tool: - Access Point Name (APN) - connection number	LED's indication Power LED	1 green
SIM		GSM LED	1 blue
Туре	SIM (25 x 15mm) for data communication (M2M SIM type only)		
Holder	On the front with protection cover		

General Specifications

Over voltage category	Cat. III (IEC 60664, EN60664)	CE Marking	Yes
Dielectric strength	4000 VAC RMS for 1 min.	EMC	
Noise rejection CMRR	65 dB, 45 to 65 Hz	Immunity - Electrostatic discharges	According to EN61000-6-2 EN61000-4-2: 8 kV air
Environment Protection degree Front Screw terminals Operating temperature Storage temperature	IP40 IP20 -20° to +50° (-4° to 122 °F) -30 to +70°C (-22°F to 158°F) (R.H. < 90% non-condensing @ 40°C)	 Immunity to irradiated Electromagnetic fields Immunity to Burst Immunity to conducted disturbances 	discharge, 4 kV contact; EN61000-4-3: 10 V/m from 80 to 3000 MHz; EN61000-4-4: 4 kV on power lines, 2kV on single lines; EN61000-4-6: 10 V from 150 KHz to 80 MHz;
Connection Antenna Power supply	RP-SMA female 2 screw terminals 1.5 mm² max Min./Max. screws tightening torque: 0.4 Nm / 0.8 Nm	- Surge Emission - Radio frequency suppression Standard compliance Safety	EN61000-4-5: 500 V on power supply According to EN61000-6-3
Housing Dimensions (WxHxD) Material	38.8 x 90 x 63.18 mm Noryl, self-extinguishing: UL 94 V-0	Health and Safety EMC RF spectrum efficiency	EN60664, EN61010-1 EN 60950 EN301489-1, EN301 489-1-7 EN301511
Mounting	DIN-rail	Accessories	The SH2UMMF124 is
Weight Approvals	Approx. 100 g (packing included) cULus according to UL60950 UL notes: Max room temperature: 40°C		delivered together with an antenna with RP-SMA connector to be screwed directly on the unit.



Mode of Operation

The SH2UMMF124 module must be connected to the Sx2WEB24 via the internal bus and it must be located only on the left side of the Sx2WEB24.

All the functions and setup

(phone numbers) are programmed using the SH tool. The SIM card is not included.

LEDs Indication

Green LED: Power status. ON: Supply ON OFF:Supply OFF

Blue LED: Communication - OFF: the unit is OFF.

OFF: the unit is OFF.Fast blinking: net search /

not registered / turning off.

- Slow blinking: registered full service.
- ON: a call is active.

Dimensions (mm)

